

ADVANCED GCE PHYSICS

EXAMINING BOARD: AQA Physics A

Minimum Entry Requirements:

Grade 6 in GCSE Physics

KEY FEATURES OF THE COURSE:

Physics plays a big part in Science and Technology. You will find that Physics at A level provides answers to a wide variety of questions, such as:

- Why are skies blue and sunsets red?
- How is radioactivity used in medicine?
- How old is the Universe?
- What is a quark?
- What holds atoms together?

You will learn the basic theoretical principles underlying the subject. There is a strong emphasis on using these principles to solve problems.

You will learn and develop important investigative skills as you tackle new practical tasks and challenges. Skilful use of equipment will be coupled with powerful analytical and evaluative techniques.

At the end of Year 12, formal exams will be taken and an assessment of performance before progression.

MODULES/UNITS COVERED YEAR 12 (including a brief outline of their content)

Core Content:

1. Measurements and their errors
2. Particles and radiation
3. Waves
4. Mechanics and materials
5. Electricity

MODULES/UNITS COVERED IN YEAR 13 (including a brief outline of their contents)

Core Content:

1. Measurements and their errors
2. Particles and radiation
3. Waves
4. Mechanics and materials
5. Electricity
6. Further mechanics and thermal physics
7. Fields and their consequences
8. Nuclear physics

Options:

9. Astrophysics
10. Medical physics
11. Engineering physics
12. Turning points in physics
13. Electronics

EXAMINATIONS:

% OF FINAL MARK

Paper 1 (sections 1-6) 2 hrs	34
Paper 2 (sections 6-8) 2 hrs	34
Paper 3 (Practical Skills and options topic) 2hrs	32